

7. A method as claimed in claim 1 comprising initiating operation of at least one emergency electrical generator.

8. A method as claimed in claim 1 comprising determining if the electrical power flow on the main distribution network diverges from the set of criteria repeatedly with a set time period between each determination.

9. A method as claimed in claim 8 wherein the time period is more than once a second.

10. A method as claimed in a claim 1 wherein the set of criteria comprises at least one of voltage, current, frequency, fluctuation, imbalance, flicker or harmonics of the electrical power flow.

11. A distributed power generation system comprising a plurality of electrical power sources and a plurality of electrical loads interconnected by a main distribution network, one or more switches for forming one or more local group distribution networks, each local group distribution network comprising at least one electrical power source and at least one electrical load, the distributed power generation system comprising at least one controller arranged to monitor the main distribution network, the controller being arranged to compare the electrical power flow with a set of criteria, the controller being arranged to determine if the electrical power flow on the main distribution network diverges from the set of criteria, the controller being arranged to maintain the switch between the at least one of the local group distribution networks and the main distribution network closed and the controller being arranged to configure the at least one of the local group distribution networks whereby the electrical power from the or each electrical power source with the at least one

of the local group distribution networks substantially matches the electrical power requirements of the electrical loads in the at least one of the local group distribution networks if the electrical power flow in the main distribution network diverges from the criteria.

12. A distributed power generation system as claimed in claim 11 wherein the controller is arranged to operate switches to shed electrical loads within the at least one of the local group distribution networks.

13. A distributed power generation system as claimed in claim 11 wherein the controller is arranged to control the power output of the electrical power sources within the at least one of the local group distribution networks.

14. A distributed power generation system as claimed in claim 11 wherein the controller is arranged to reduce the power exchange between the at least one of the local group distribution networks and the main distribution network.

15. A distributed power generation system as claimed in claim 11 wherein the controller is arranged to initiate operation of the at least one emergency electrical generator.

16. A distributed power generation system as claimed in claim 11 wherein the controller is arranged to determine if the electrical power flow on the main distribution network diverges from the set of criteria repeatedly with a set time period between each determination.

17. A distributed power generation system as claimed in claim 11 wherein the set of criteria comprises at least one of voltage, current, frequency, fluctuation, imbalance, flicker or harmonics of the electrical power flow.

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